

Safety Data Sheet

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Name: Black Polyurethane Product Code: UC-5502 Part A

MANUFACTURER : Heresite Protective Coatings, LLC
822 S. 14th Street
Manitowoc, WI 54220

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1 (800) 424-9300

E-MAIL ADDRESS OF PERSON RESPONSIBLE:
peter@heresite.com

Product Use: Industrial and Commercial Coatings, primary application to metal.

Not recommended for: Any other application

SECTION 2: HAZARDS IDENTIFICATION

GHS Ratings:

| | | |
|------------------|----|--|
| Flammable liquid | 3 | Flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$ (140°F) |
| Mutagen | 1B | Known to produce heritable mutations in human germ cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity |
| Carcinogen | 1A | Known Human Carcinogen Based on human evidence |

Signal Word: Danger



GHS Hazards

| | |
|------|-----------------------------|
| H226 | Flammable liquid and vapour |
| H340 | May cause genetic defects |
| H350 | May cause cancer |

GHS Precautions

| | |
|----------------|---|
| P201 | Obtain special instructions before use |
| P202 | Do not handle until all safety precautions have been read and understood |
| P210 | Keep away from heat/sparks/open flames/hot surfaces No smoking |
| P233 | Keep container tightly closed |
| P240 | Ground/bond container and receiving equipment |
| P241 | Use explosion-proof electrical/ventilating/light/equipment |
| P242 | Use only non-sparking tools |
| P243 | Take precautionary measures against static discharge |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower. |
| P308+P313 | If exposed or concerned: Get medical advice/attention |
| P370+P378 | In case of fire: Use CO2, dry chemical, or foam for extinction. |

P403 Store in a well ventilated place
P405 Store locked up
P501 Dispose of contents/container to in accordance with local/regional/national/international regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS number | Weight Concentration % |
|----------------------------------|------------|------------------------|
| Butyl Acetate | 123-86-4 | 10.00% - 20.00% |
| Methyl Amyl Ketone | 110-43-0 | 5.00% - 10.00% |
| Crystalline Silica | 14808-60-7 | 5.00% - 10.00% |
| Solvent, Naphtha, Heavy Aromatic | 64742-95-6 | 1.00% - 5.00% |
| Carbon Black | 1333-86-4 | 0.10% - 1.00% |

SECTION 4 - FIRST AID MEASURES

General Advice

If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

Inhalation

Remove to fresh air. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen if a qualified operator is available. Get medical attention.

Eye Contact

Immediately flush eyes with large amounts of water for at least 20 minutes, while holding eyelids open. Obtain medical attention immediately, as a precaution.

Skin Contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

If person is conscious, give them several glasses of water to drink. Do NOT induce vomiting unless directed to do so by medical personnel. Obtain immediate medical attention.

Most important symptoms and effects, both acute and delayed

No information available

Indication of any immediate medical attention and special treatment needed

Consult a physician

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media

Carbon Dioxide, Dry Chemical, Foam

Unsuitable extinguishing media

None identified

Special hazards arising from the substance or mixture

None identified

Advice for firefighters

No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

Keep people at a distance and stay on the windward side.

Ensure adequate ventilation.

Keep away from ignition sources.

Environmental precautions:

Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

Prevent from spreading (e.g. by damming-in or oil barriers).

Keep dirty washing solution for appropriate disposal.

Methods and material for containment and cleaning up:

Ensure adequate ventilation and proper training.

Absorb with liquid-binding non combustible material (e.g. sand).

Clean the accident area carefully.

Send for recovery or disposal in suitable containers.

Reference to other sections:

See Section 2, 7, 8 and 13

SECTION 7: HANDLING AND STORAGE**Precautions for safe handling:**

See Section 2

Conditions for safe storage:

Store in a well-ventilated place.

Keep cool.

Store with only compatible materials.

Specific end uses(s):

See Section 1

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

| Chemical Name / CAS No. | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|--------------------------------|-------------------------------|-----------------------------|---|
| Butyl Acetate 123-86-4 | 150 ppm TWA; 710 mg/m3 TWA | 200 ppm STEL 150 ppm TWA | NIOSH: 150 ppm TWA; 710 mg/m3 TWA 200 ppm STEL; 950 mg/m3 STEL |
| Methyl Amyl Ketone 110-43-0 | 100 ppm TWA; 465 mg/m3 TWA | 50 ppm TWA | NIOSH: 100 ppm TWA; 465 mg/m3 TWA |

| | | | |
|---|-----------------------------|--|---|
| Crystalline Silica 14808-60-7 | TWA 10 mg/m3 PEL TWA 8hr | 0.025 mg/m3 TWA (respirable fraction) | NIOSH: 0.05 mg/m3 TWA (respirable dust) |
| Solvent, Naphtha, Heavy Aromatic 64742-95-6 | Not Established | Not Established | Not Established |
| Carbon Black 1333-86-4 | 3.5 mg/m3 TWA | 3 mg/m3 TWA (inhalable fraction) | NIOSH: 3.5 mg/m3 TWA; 0.1 mg/m3 TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons, as PAH) |

Additional information about design of technical systems:

Engineering controls should be used as a primary means to control exposures.
 Make available emergency shower and eye wash at the workplace according to appropriate standards.
 A workplace risk assessment must be carried out in order to determine the corrective engineering control and organizational measures and personal protective equipment.
 No further data; see Section 7.

Exposure controls

Appropriate engineering controls:

No data available

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
 Take off immediately all contaminated clothing.
 Launder work clothing regularly.
 Wash hands before breaks and at the end of the work.
 Avoid contact with the eyes and skin.
 Do not inhale gases / fumes / aerosols.
 Do not eat, drink or smoke while working to limit potential ingestion of chemicals.

Personal Protective Equipment

Eye and Face Protection:

Wear eye protection/face protection.

Skin Protection:

Wear protective gloves/protective clothing.

Hand Protection:

The glove material has to be impermeable and resistant to the product.
 Due to missing tests no recommendation to the glove material can be given for the product.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Respiratory Protection:

Engineering controls should be used as primary means to control exposures. Local exhaust ventilation is required unless used in a closed system. For laboratory use, handle in a lab fume hood.
 If the applicable Occupational Exposure Level (OEL) is exceeded, wear a NIOSH certified respiratory protection equipment meeting US requirements (1910.134 Occupational Safety and Health Administration, Personal Protective Equipment, Respiratory Protection) with a protection factor sufficient to control exposures to below the OEL.

Environmental Exposure Controls:

See Section 6.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--|
| Appearance: No Data Found | Odor: No Data Found |
| Vapor Pressure: No Data Found | Odor threshold: No Data Found |
| Vapor Density: No Data Found | pH: No Data Found |
| Specific Gravity 1.23 | Melting point: No Data Found |
| Freezing point: No Data Found | Solubility: No Data Found |
| Boiling range: >=118C | Flash point: 32C, 90F |
| Evaporation rate: No Data Found | Flammability: No Data Found |
| Explosive Limits: No Data Found | Partition coefficient (n- octanol/water): No Data Found |
| Autoignition temperature: No Data Found | Decomposition temperature: No Data Found |
| Viscosity: No Data Found | Grams VOC less water: No Data Found |

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

No known hazards with respect to reactivity when handled and stored according to provisions.

Chemical Stability:

Stable under recommended storage and handling conditions.

Thermal decomposition / conditions to avoid:

Avoid exposure to heat, sources of ignition, and open flame . No decomposition if used according to specifications.

Possibility of hazardous reactions:

No data available.

Conditions to avoid:

High Temperatures.
Heat, flames and sparks.
See section 2.

Incompatible materials:

No further information available.

Hazardous decomposition products:

In case of fire: Carbon Dioxide, Carbon Monoxide, Hydrocarbons

SECTION 11: TOXICOLOGICAL INFORMATION

Mixture Toxicity

Oral Toxicity LD50: 4,328mg/kg

Dermal Toxicity LD50: 115mg/kg

Component Toxicity

123-86-4 Butyl Acetate

Dermal LD50: 500 mg/m3 (Rabbit) Inhalation LC50: 390 ppm (Rat)

110-43-0 Methyl Amyl Ketone

1333-86-4 Oral LD50: 1,600 mg/kg (Rat) Dermal LD50: 13 mL/kg (Rabbit)
 Carbon Black
 Dermal LD50: 3,000 mg/kg (Rabbit)

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Routes of Entry:

Inhalation Skin Contact Eye Contact Ingestion

Exposure to this material may affect the following organs:

Eyes Lungs Central Nervous System Skin Peripheral Nervous System
 Respiratory System

Effects of Overexposure

May be harmful if inhaled. Causes respiratory tract irritation.. May be harmful if inhaled. Causes respiratory tract irritation..

May be harmful if absorbed through skin. Causes skin irritation. May be harmful if absorbed through skin. Causes skin irritation.

May cause eye irritation.

May be harmful if swallowed May be harmful if swallowed

Irritating to eyes. Irritating to eyes.

| <u>CAS Number</u> | <u>Description</u> | <u>% Weight</u> | <u>Carcinogen Rating</u> |
|-------------------|--------------------|-----------------|---|
| 1333-86-4 | Carbon Black | .1 to 1.0% | Carbon Black: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed |
| 14808-60-7 | Crystalline Silica | 5 to 10% | Crystalline Silica: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed |

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

No ecotoxicological data for the substance itself are available.

Persistence and degradability:

No further relevant information available.

Bioaccumulative potential:

No further relevant information available.

Mobility in soil:

No further relevant information available

Results of PBT and VPvB assessment:

No data available

Other adverse effects:

No further relevant information available.

Component Ecotoxicity

| | |
|--------------------|---|
| Butyl Acetate | 96 Hr LC50 Lepomis macrochirus: 100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 17 - 19 mg/L [flow-through] 72 Hr EC50 Desmodemus subspicatus: 674.7 mg/L |
| Methyl Amyl Ketone | 96 Hr LC50 Pimephales promelas: 126 - 137 mg/L [flow-through] |
| Carbon Black | LC50-Danio Rerio (Zebra Fish) - 1000mg/l - 96h Daphnia Magna (Water Flea) - 5600mg/l - 24h EC50-Desmodemus Subspicatus - 10000mg/l - 72h |

SECTION 13: DISPOSAL CONSIDERATIONS**Waste treatment methods:**

Waste material must be disposed of I/A/W Federal, State & Local environmental control regulations. Incineration is a recommended technology. Empty containers must be handled with care due to product residue. Decontaminate containers prior to disposal. Do not heat/cut empty container with electric or gas torch.

SECTION 14: TRANSPORT INFORMATION**Environmental hazards:**

No information available

Special precautions for users:

No information available.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not required, not intended to be carried in bulk tankers.

| <u>Agency</u> | <u>Proper Shipping Name</u> | <u>UN Number</u> | <u>Packing Group</u> | <u>Hazard Class</u> |
|---------------|-----------------------------|------------------|----------------------|---------------------|
| IATA | Paint | 1263 | III | 3 |
| IMDG | Paint | 1263 | III | 3 |
| USDOT | Paint | 1263 | III | 3 |

SECTION 15: REGULATORY INFORMATION**Classification:**

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- 1333-86-4 Carbon Black 0.1 to 1.0 %
- 14808-60-7 Crystalline Silica 5 to 10 %

Clean Air Act

- 110-43-0 Methyl Amyl Ketone 5 to 10 %
- 123-86-4 Butyl Acetate 10 to 20 %

SARA Section 302

SARA 311/312

- 1333-86-4 Chronic Health Hazard
- 64742-95-6 Fire Hazard, Chronic Health Hazard, Acute Health Hazard
- 14808-60-7
- 110-43-0 Fire Hazard, Chronic Health Hazard, Acute Health Hazard
- 123-86-4 Fire Hazard, Chronic Health Hazard, Acute Health Hazard

TSCA (Toxic Substance Control Act)

- 64742-95-6 Solvent, Naphtha, Heavy Aromatic 1 to 5 %
- 123-86-4 Butyl Acetate 10 to 20 %

TSCA (Toxic Substance Control Act) 8b

- 1333-86-4 Carbon Black 0.1 to 1.0 %
- 64742-95-6 Solvent, Naphtha, Heavy Aromatic 1 to 5 %
- 14808-60-7 Crystalline Silica 5 to 10 %
- 110-43-0 Methyl Amyl Ketone 5 to 10 %
- 123-86-4 Butyl Acetate 10 to 20 %

| <u>Country</u> | <u>Regulation</u> | <u>All Components Listed</u> |
|----------------|---|------------------------------|
| USA | New Jersey Right to Know | No |
| USA | Pennsylvania Right to Know | No |
| USA | Massachusetts Right to Know | No |
| AU | Australia inventory | Yes |
| CA | Canadian Domestic Substances List/Non-Domestic Substa | Yes |
| EU | European inventory | Yes |
| JP | Japan inventory | No |
| CN | China inventory | Yes |
| Korea | Korean Existing and Evaluated Chemical Substances | Yes |
| NZ | New Zealand inventory | Yes |
| PH | Philippine The Toxic Substances and Hazardous and Nucle | Yes |
| Canada | | No |

EU Risk Phrases

Safety Phrase

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations part 372.

- 14808-60-7 Crystalline Silica 5 - 10%

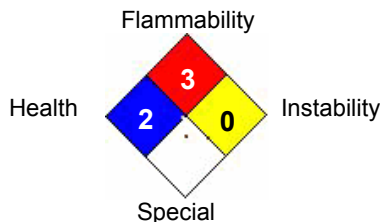
SECTION 16: OTHER INFORMATION

Hazardous Material Information System (HMIS)

| | | |
|----------------------------|----------|--------------------------|
| HEALTH | * | 2 |
| FLAMMABILITY | 3 | |
| PHYSICAL HAZARD | 0 | |
| PERSONAL PROTECTION | | <input type="checkbox"/> |

HMIS & NFPA Hazard Rating Legend
 * = Chronic Health Hazard
 0 = INSIGNIFICANT
 1 = SLIGHT
 2 = MODERATE
 3 = HIGH

National Fire Protection Association (NFPA)



DISCLAIMER: The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the

composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Reviewer Revision

Date Prepared: 5/9/2016